



# ARKANSAS DEPARTMENT OF HEALTH

**José R. Romero, MD, FAAP, FIDSA, FPIDS, FAAAS,  
Secretary of Health**

## **COVID-19 Variant of Concern (VOC) Case Report Arkansas, 2021-2022**

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**Week Ending Saturday 4/16/2022**

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The Arkansas Department of Health (ADH) receives COVID-19 variant reports of a limited number of cases that were sequenced for selected Arkansas residents. The information provided is not the count of all cases due to the COVID-19 Delta variant nor of the counts of all the variants in the state, and are only based on a very small, non-random, convenience sample of cases. Therefore, it is important to understand that this information is not representative of all cases, and does not reflect the overall burden of disease. It is presumed that there are many more people affected than the report shows.

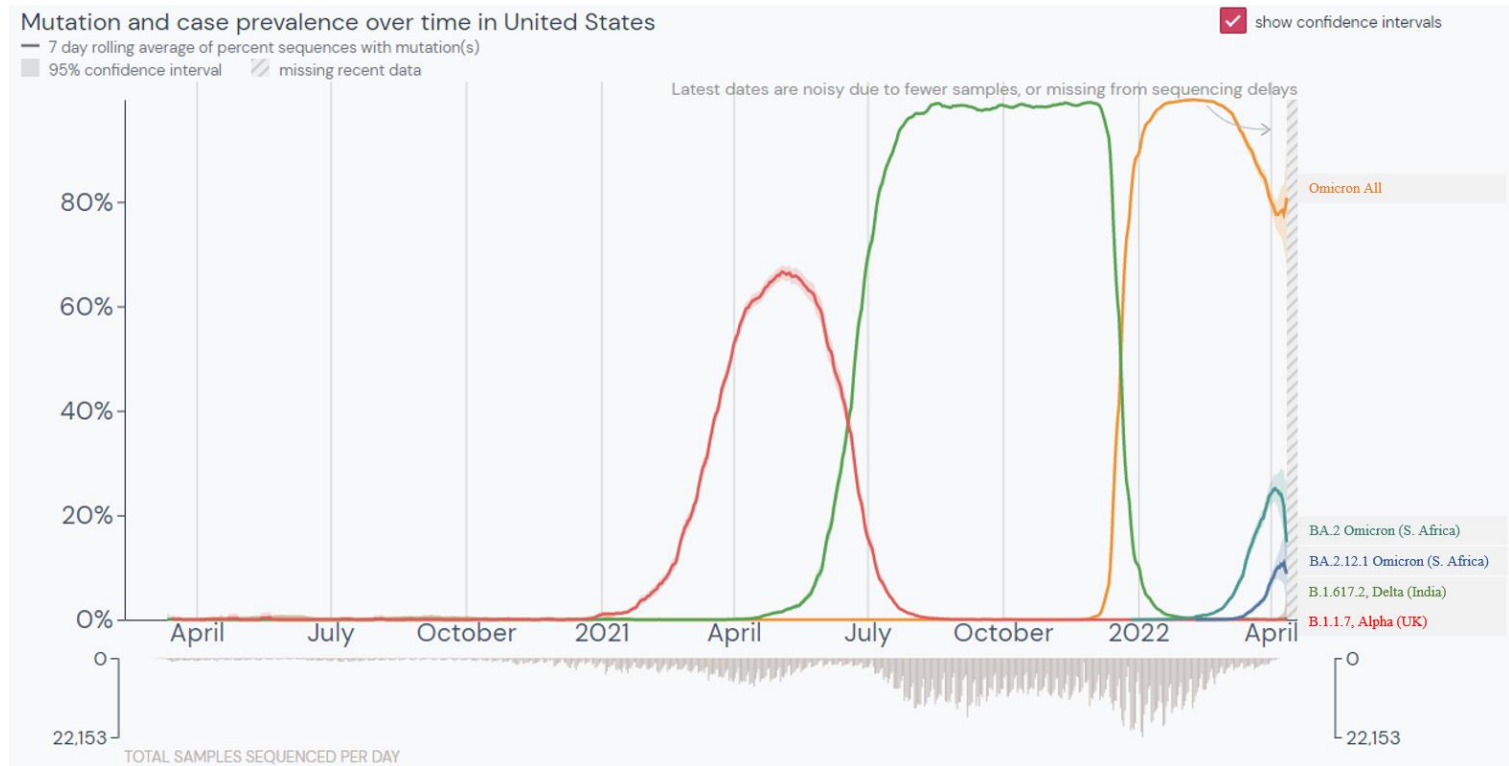
Most of these cases are reported by GISAID and GenBank and identified by ADH staff with assistance from the testing labs. Other data are obtained from [Outbreak.info](https://outbreak.info) website.

Due to time lag in getting sequencing results, data are subject to change over time and will be updated as more data become available.

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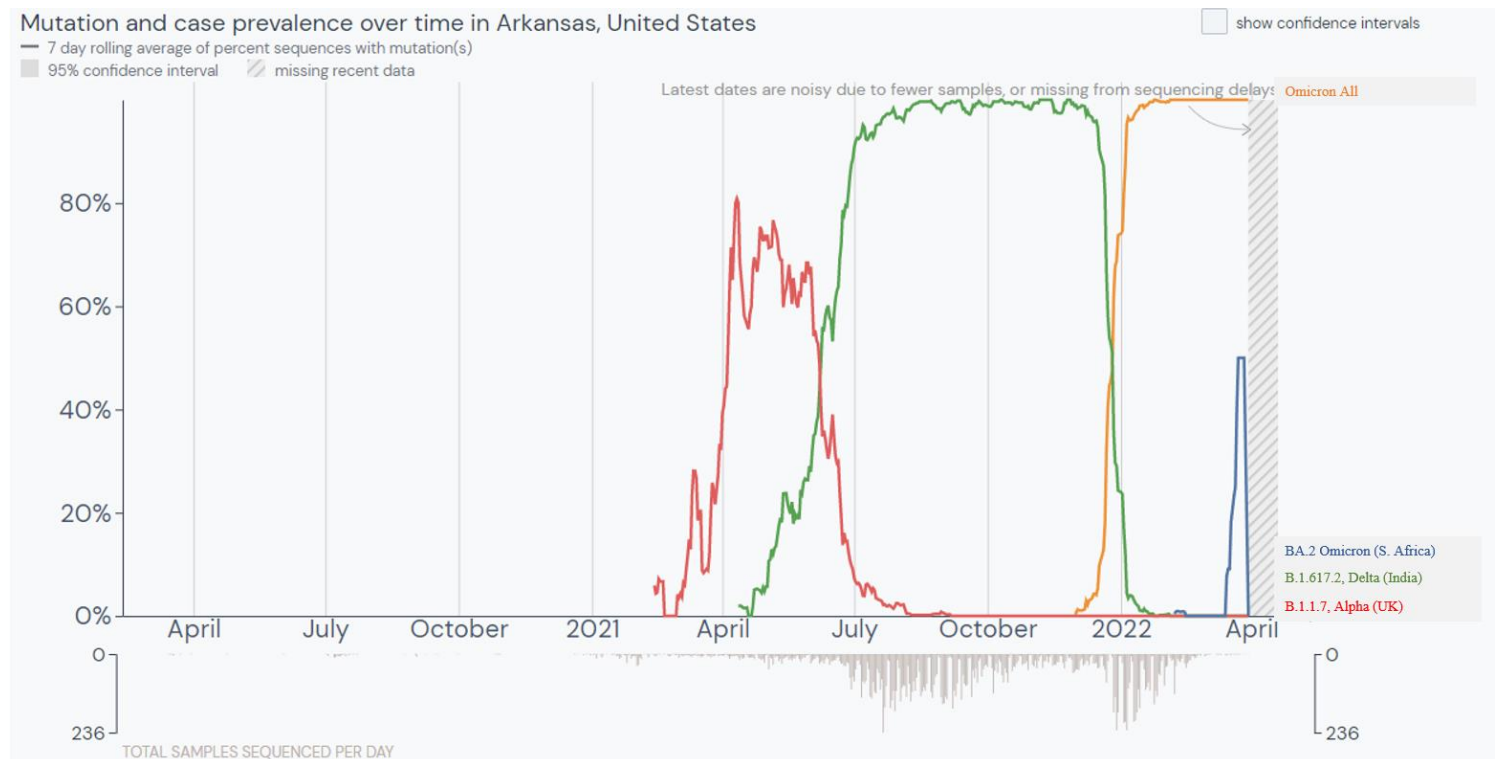
**April 19, 2022**

## Mutation and Case Prevalence Over Time, National Data:

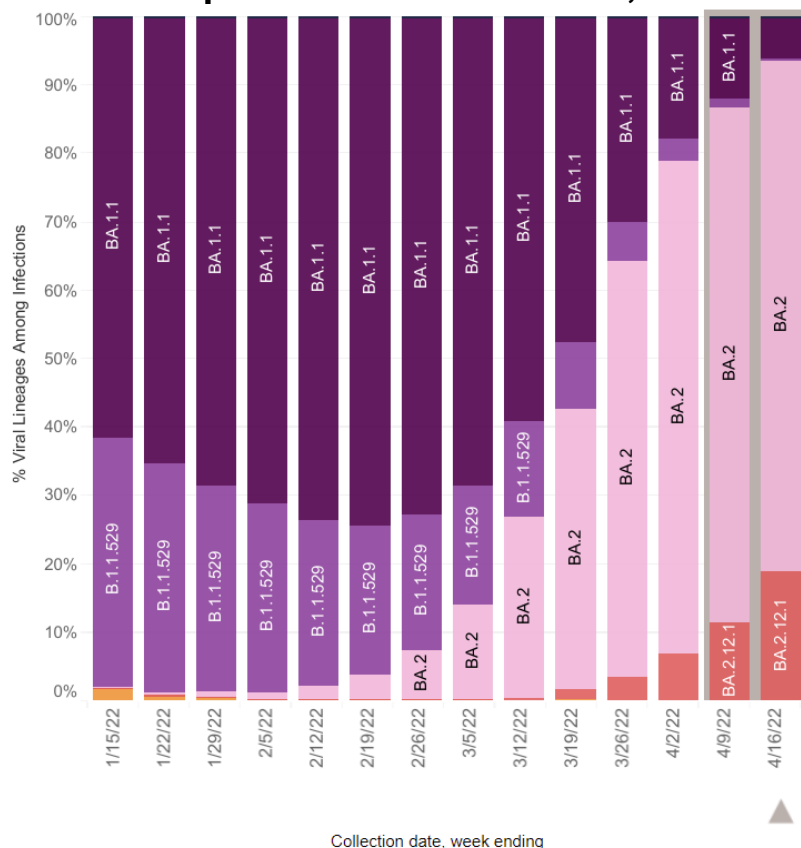


Source: <https://outbreak.info/>

## Mutation and Case Prevalence Over Time, Arkansas Data:



## Variant Proportions as of 4/16/2020, National Data:



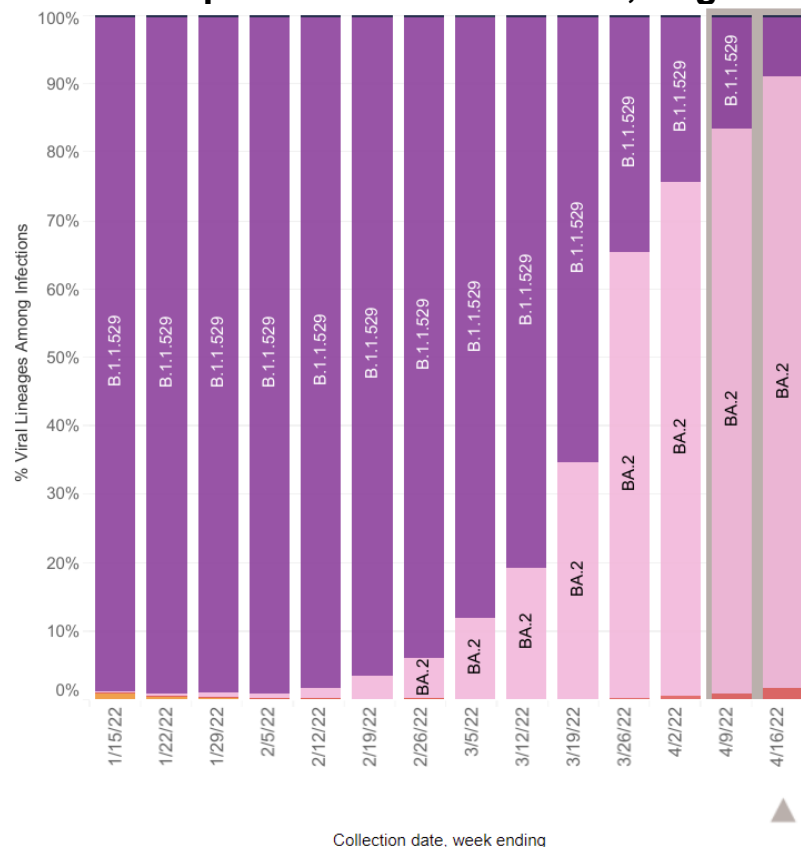
Source: <https://covid.cdc.gov/covid-data-tracker/#variant-proportions>

USA					
WHO label	Lineage #	US Class	%Total	95%PI	
Omicron	BA.2	VOC	74.4%	68.3-79.7%	
	BA.2.12.1	VOC	19.0%	13.4-26.0%	
	BA.1.1	VOC	6.1%	5.1-7.3%	
	B.1.1.529	VOC	0.5%	0.3-0.6%	
Delta	B.1.617.2	VBM	0.0%	0.0-0.0%	
Other	Other*		0.0%	0.0-0.0%	

\* Enumerated lineages are US VOC and lineages circulating above 1% nationally in at least one week period. "Other" represents the aggregation of lineages which are circulating <1% nationally during all weeks displayed.

\*\* These data include Nowcast estimates, which are modeled projections that may differ from weighted estimates generated at later dates  
# AY.1-AY.133 and their sublineages are aggregated with B.1.617.2. BA.1, BA.3, BA.4, BA.5 and their sublineages (except BA.1.1 and its sublineages) are aggregated with B.1.1.529. For regional data, BA.1.1 and its sublineages are also aggregated with B.1.1.529, as they currently cannot be reliably called in each region. Except BA.2.12.1, BA.2 sublineages are aggregated with BA.2.

## Variant Proportions as of 4/16/2020, Region 6:



### Region 6 - Arkansas, Louisiana, New Mexico, Oklahoma, and Texas

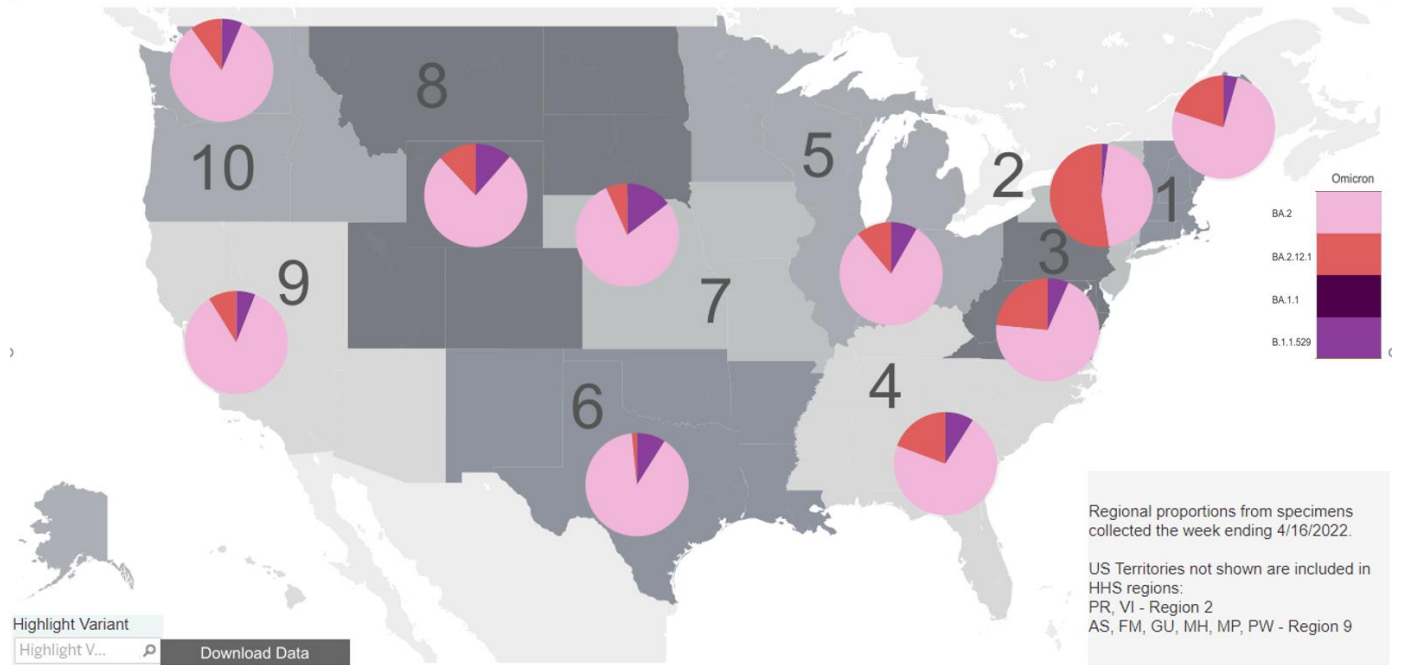
WHO label	Lineage #	US Class	%Total	95%PI	
Omicron	BA.2	VOC	89.4%	85.3-92.5%	
	B.1.1.529	VOC	9.0%	6.5-12.2%	
	BA.2.12.1	VOC	1.6%	0.3-6.5%	
Delta	B.1.617.2	VBM	0.0%	0.0-0.0%	
Other	Other*		0.0%	0.0-0.0%	

\* Enumerated lineages are US VOC and lineages circulating above 1% nationally in at least one week period. "Other" represents the aggregation of lineages which are circulating <1% nationally during all weeks displayed.

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# Variant Proportions by Region

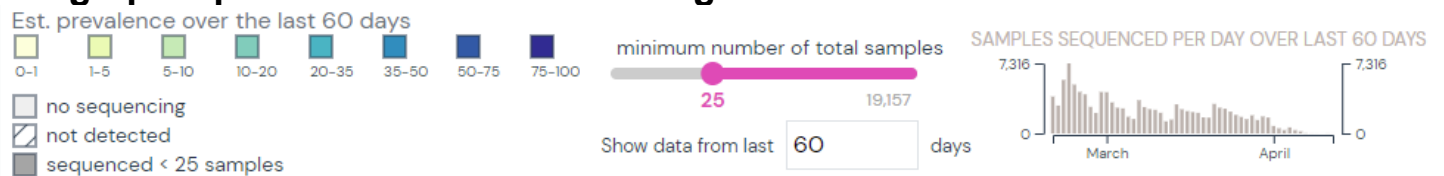
United States: 4/10/2022 – 4/16/2022 NOWCAST



Lineages called using panglo-designation (PANGO)-v1.3, pangolin v3.1.20, pangoleARN version 04/09/2022 and Scorpio v0.3.16.  
Lineage BA.1.1 and its sublineages are aggregated with B.1.1.529 at the regional level as they currently cannot be reliably called in each region.

Updated April 19, 2022

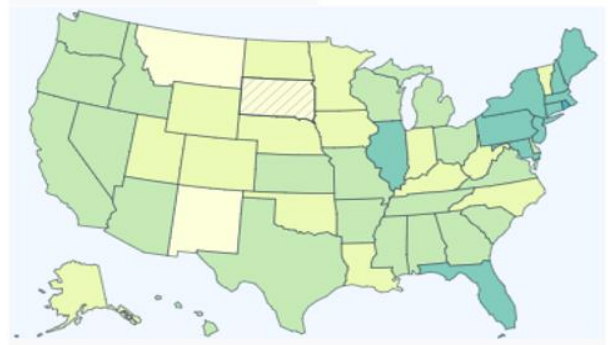
## Geographic prevalence of tracked lineages & mutations



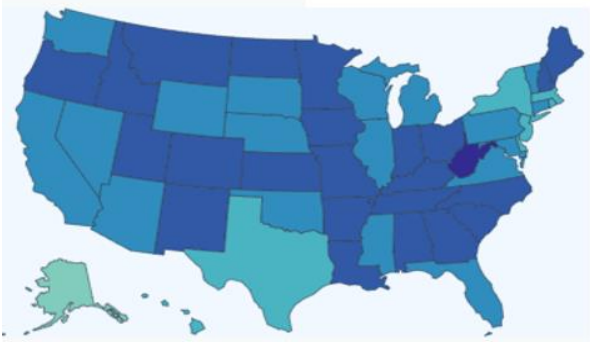
### B.1.617.2, Delta (India)



### BA.2 Omicron



### BA.1.1 Omicron



### BA.2.12.1 Omicron

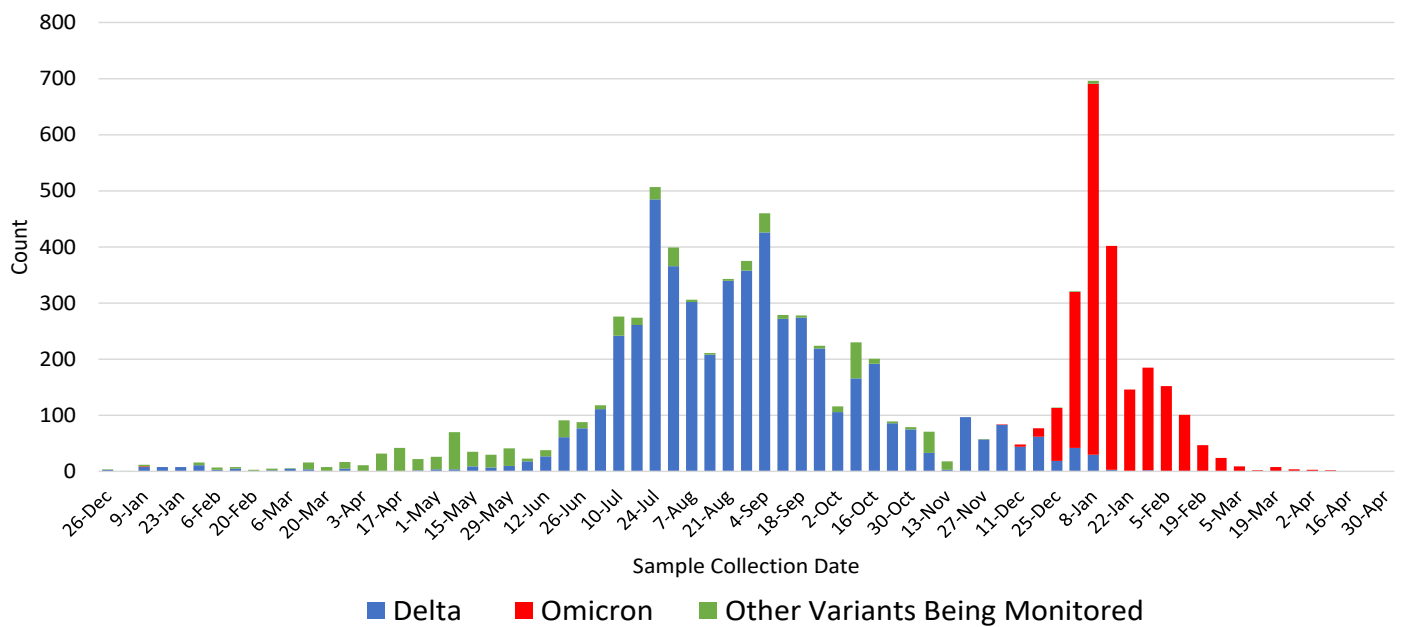


# Cumulative Number of Arkansas Specimens Sequenced as of April 16, 2022

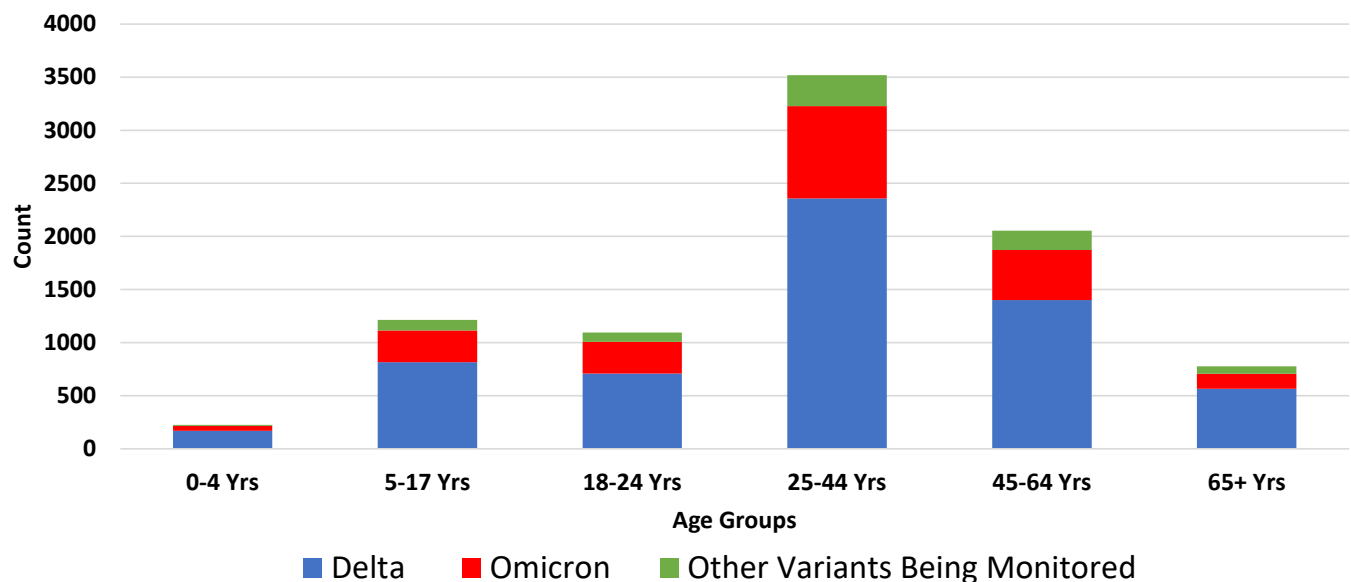
Total Arkansas Sequences = 16,707 (2.41% Sequenced)

Total Number of BA.2 Sub-variant in Arkansas: 61

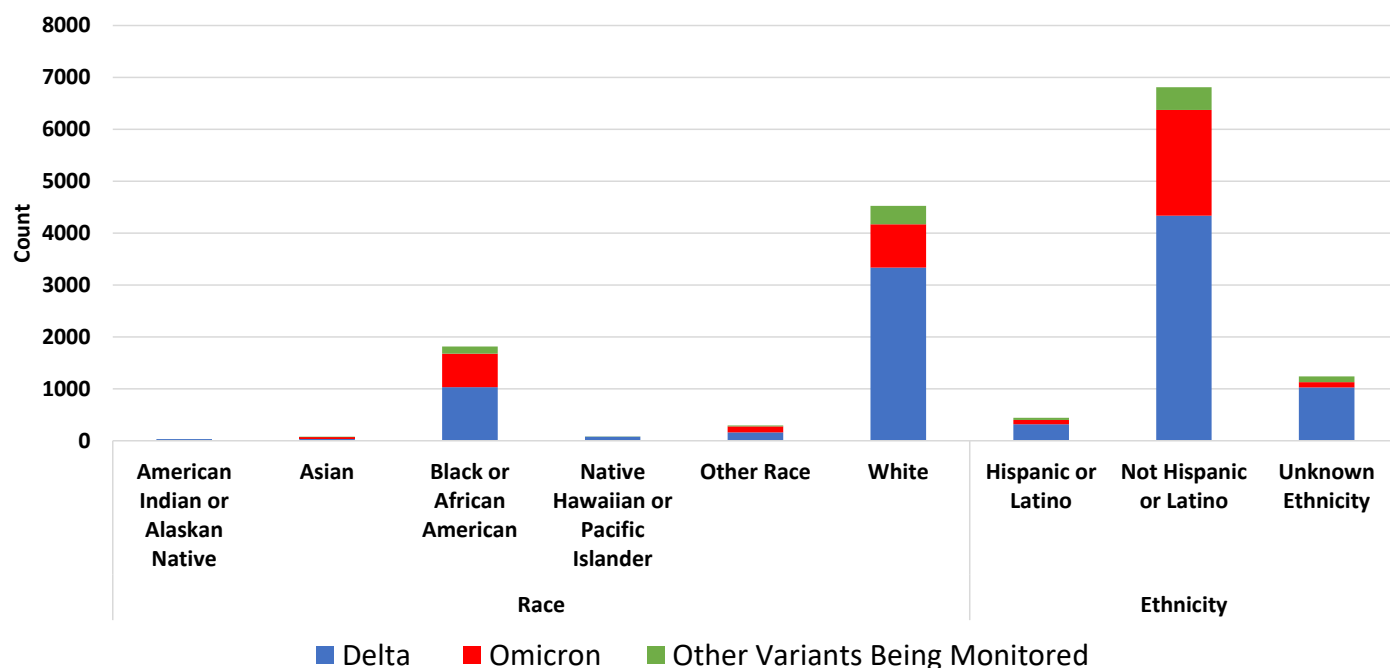
Arkansas Variants Reported by Date of Sample Collection



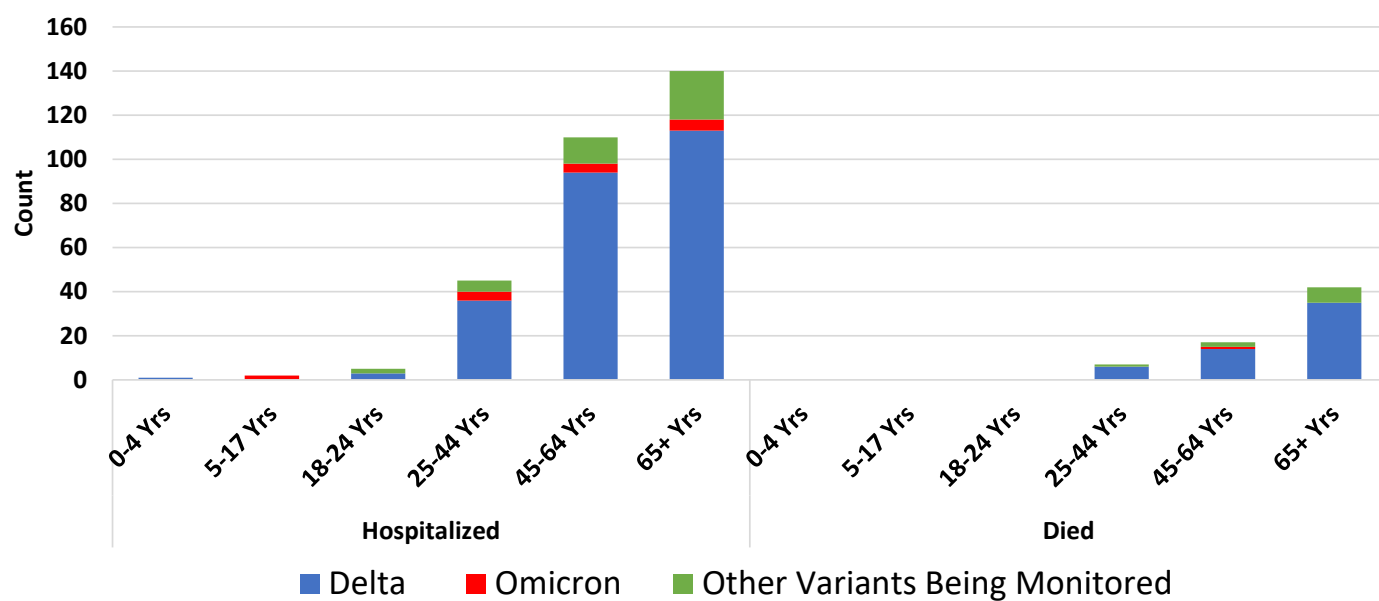
Arkansas Reported Variant Count by Age Groups

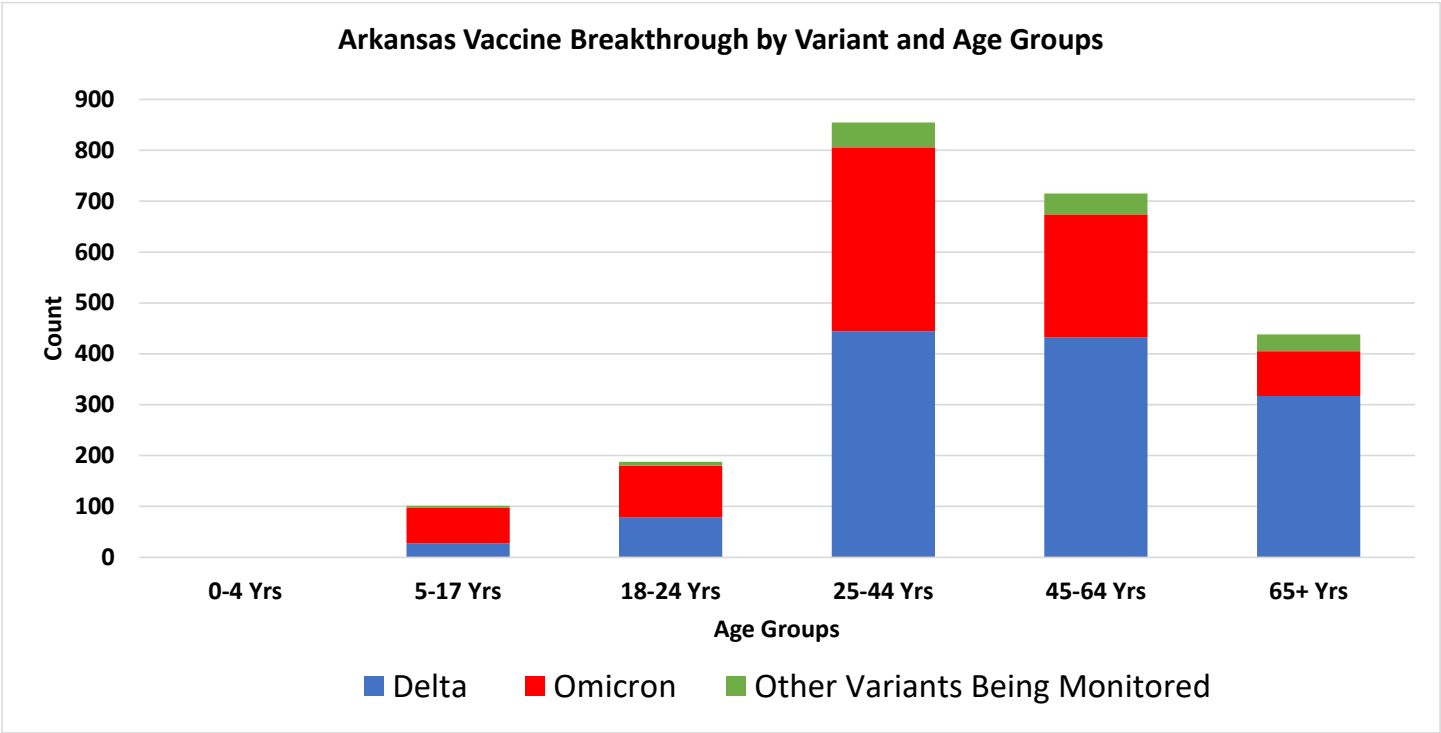
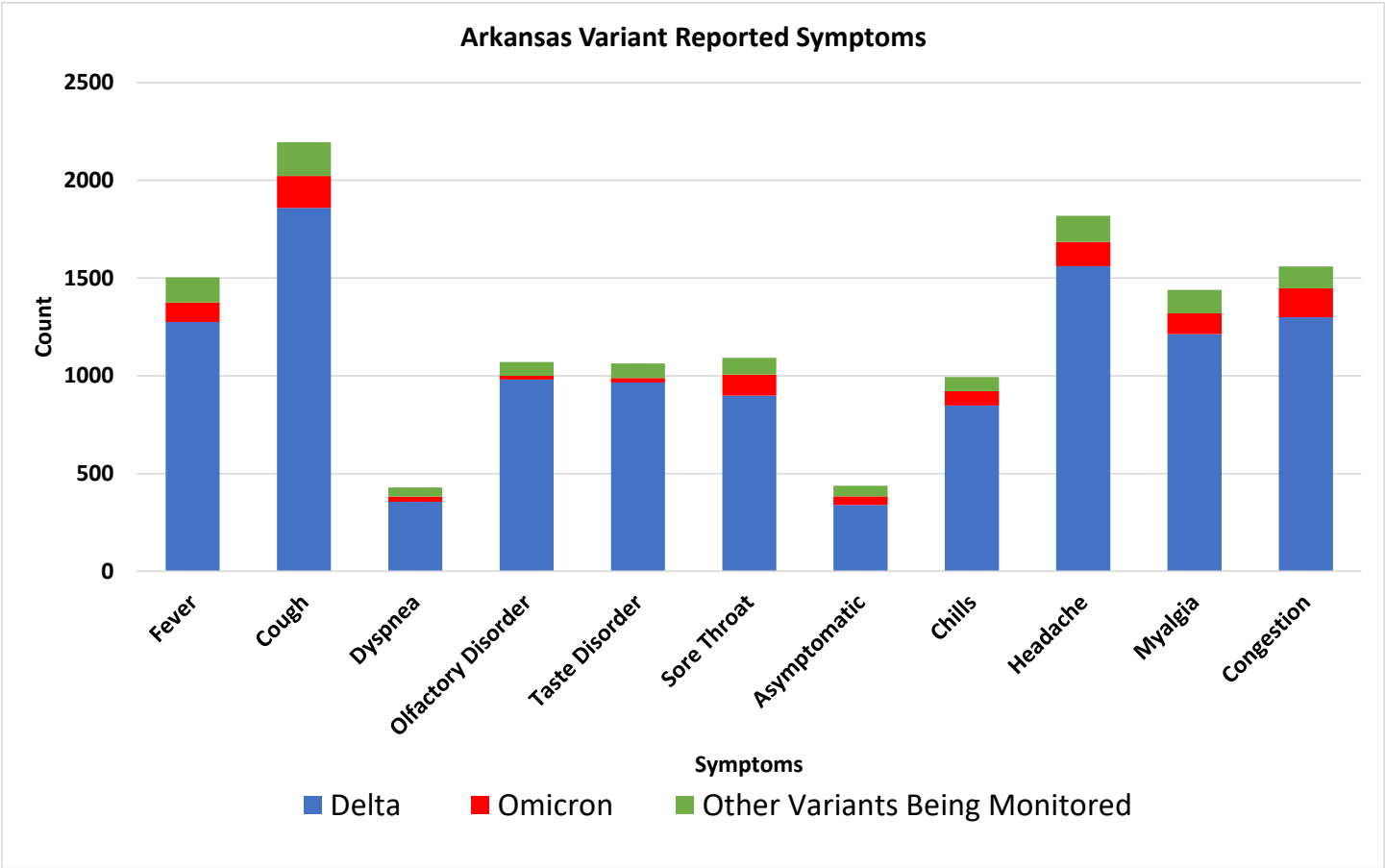


### Arkansas Reported Variant Count by Race and Ethnicity



### Arkansas Variant Hospitalization and Death by Age Group





**Arkansas Total: 16,707 (2.41%)**



Date: April 19, 2022  
Source: Arkansas Department of Health  
Author: Haytham Safi, Epidemiology Supervisor